## INTERNATIONAL SEARCH REPORT

tional Application No

PCT/EP2004/053148 A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C10J3/52 C10J C10J3/48 According to International Patent Classification (IPC) or to both national classification and IPC Minimum documentation searched (classification system followed by classification symbols) IPC 7 C10J Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the International search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X US 4 828 578 A (DEN BLEYKER ALFRED L) 1.5 - 99 May 1989 (1989-05-09) column 5, line 5 - line 10; figures Υ 2-4, 10-13 Υ EP 0 318 071 A (SHELL INTERNATIONALE 2-4,RESEARCH MAATSCHAPPIJ B.V) 10-13 31 May 1989 (1989-05-31) cited in the application abstract; figures page 3, line 53 - line 57 Α EP 0 374 323 A (TEXACO DEVELOPMENT CORP) 1-13 27 June 1990 (1990-06-27) column 6, line 18 - line 23 abstract; figures -/--Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: \*T\* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention. "A" document defining the general state of the art which is not considered to be of particular relevance invention \*E\* earlier document but published on or after the international "X" document of particular relevance; the claimed Invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. \*O\* document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 1 March 2005 08/03/2005

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## **INTERNATIONAL SEARCH REPORT**

In ational Application No
PCT/EP2004/053148

C.(Continue	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	PCT/EP2004/053148
ategory *	Citation of document, with indication, where appropriate, of the relevant pass	ages Relevant to claim No.
1	EP 0 377 930 A (TEXACO DEVELOPMENT COR 18 July 1990 (1990-07-18) the whole document	P) 1–13
A	US 4 071 329 A (EALES DAVID FRANK) 31 January 1978 (1978-01-31) the whole document	1-13
A	US 4 425 254 A (SEIPENBUSCH JUERGEN E AL) 10 January 1984 (1984-01-10) the whole document	T 1–13
A	US 5 755 838 A (MURAMATSU TADAYOSHI E AL) 26 May 1998 (1998-05-26) abstract; figures column 11, line 12 - line 14 column 11, line 38 - line 41 column 12, line 39	T 1-13
4	US 5 271 243 A (JELICH WERNER) 21 December 1993 (1993-12-21) the whole document	1-13
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		}

## INTERNATIONAL SEARCH REPORT

International Application No PCT/EP2004/053148

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 4828578	Α	09-05-1989	CN	1035838 A ,C	27-09-1989
	• • •	02 03 1909	JP	1308493 A	13-12-1989
			UF	1300433 H	13-12-1989
EP 0318071	Α	31-05-1989	AU	2418488 A	27-04-1989
			CN	1032811 A ,B	10-05-1989
			DE	3872357 D1	30-07-1992
			DE	3872357 T2	21-01-1993
		•	EP	0318071 A1	31-05-1989
			JP	1135897 A	29-05-1989
			ZA	8807883 A	26-07-1989
EP 0374323	Α	27-06-1990	US	4801306 A	31-01-1989
			ĒΡ	0374323 A1	27-06-1990
			IN	170794 A1	23-05-1992
EP 0377930	Α	 18-07-1990	110	4000107 4	
LI 03//330	М	10-0/-1330	US EP	4808197 A	28-02-1989
				0377930 A1	18-07-1990
			IN	171038 A1	04-07-1992
US 4071329	Α	31-01-1978	GB	1512677 A	01-06-1978
US 4425254	Α	10-01-1984	DE	2828562 A1	03-01-1980
			AU	529818 B2	23-06-1983
			AU	4850379 A	03-01-1980
			BR	7904148 A	30-12-1980
			CA	1134146 A1	26-10-1982
			DE	2963723 D1	04-11-1982
			EP	0012151 A1	25-06-1980
			JP	1179358 C	30-11-1983
•			JP	55024594 A	21-02-1980
			JP	58011474 B	03-03-1983
			PL	216681 A1	19-05-1980
			SU	986300 Å3	30-12-1982
			US	4514191 A	30-04-1985
			ZA	7903255 A	25-03-1981
 US 5755838	Α	26-05-1998	JP	2544584 B2	16-10-1996
			ĴΡ	7278573 A	24-10-1995
			CN	1117074 A ,C	21-02-1996
 US 5271243	Α	21-12-1993	NONE		